# Site Investigation Summary Report

**Site**: Perfetto Yard, located at corner of Park Avenue and Richmond Terrace, Staten Island, New York.

**Site visit date**: October 3, 2008

**Investigator**: Sven Hoeger, CPESC

**Purpose:** Preliminary investigation into the alleged presence of lead in the soil.

**Site description**:
The site is triangular and it is bordered by the two streets Park Avenue and Richmond Terrace and an elevated railroad trestle. At its perimeter the property is surrounded by an eight-foot tall chainlink fence and a gate. The interior is almost level, with a few soil piles in the corners. Two large construction machines and a storage container were the only obvious man-made objects on the site. The ground is mostly barren or shows patches of grasses/short weeds.

**Action taken**:
With the aid of a large excavator, four deep holes (approximately 5 feet deep) were dug at predetermined locations that were expected to return a comprehensive overview of the contamination issue. These holes were then sampled with a stainless steel tool at standardized depth, covering the surface layer (layer "A" between 0 and 15 inches deep), the middle of the soil column (layer "B", between 15 and 30 inches deep), and the bottom of the hole (layer "C", from 30 to 48 inches deep). The layers were sampled individually, packaged and marked, resulting in a total of 12 soil samples. For each of the sampling holes the soils strata were recorded and documented photographically.

**Chain of custody**:
The samples were immediately overnighted to Maximum Environmental Management, Inc.. There the samples were warehoused and compiled into three initial analysis samples, one each representing the top (A), middle (B) and lower (C) soil layers taken. The samples were analyzed by York Analytical Laboratories, Inc.. After receiving the initial analysis results back, six additional samples were analyzed. These samples represented the three layers each for two of the sampling locations. The two sampling locations were chosen based on similar soil profiles.

**Results:**
For a complete listing of the metals, please refer to the laboratory report. The lead analysis results have been summarized in Table 1, below:

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Table 1:
Lead analysis results, summariezed

**1) Mixed sample from all 4 locations:**

| Line | Strata | Lead (ppm) |
|---|---|---|
| 1 | top 15 inches | 8880 |
| 2 | 15-30 inches | 20800 |
| 3 | 30-48 inches | 1400 |

**2) Individual sample from hole #2:**

| Line | Strata | Lead (ppm) |
|---|---|---|
| 1 | top 15 inches | 14430 |
| 2 | 15-30 inches | 42500 |
| 3 | 30-48 inches | 133 |

**3) Individual sample from hole #3:**

| Line | Strata | Lead (ppm) |
|---|---|---|
| 1 | top 15 inches | 8430 |
| 2 | 15-30 inches | 25570 |
| 3 | 30-48 inches | 22.4 |

Line 1 in the tables indicated that the soils have elevated to highly contaminated lead levels. The distribution of these lead levels appeared to be concentrated in the middle layer. Knowing the soil profiles, we then selected to sample locations with clearly defined soil layers and had these layers analyzed separately. From this second round of analysis, we can see clearly that the original sandy subsoil has low levels of lead only (possibly from contamination during the digging of the hole), while the middle layer (strata) with a very distinct black layer reminiscent of charcoal has the highest concentrations. The contamination in the top layer (strata) is also significant.

**Additional Note**:
Maximum Environmental still retains the soil samples. Additional tests can be performed as needed.

Signed:

Sven Hoeger
Attachments: Exhibits 1-5
York Analytical – Technical Reports (2)

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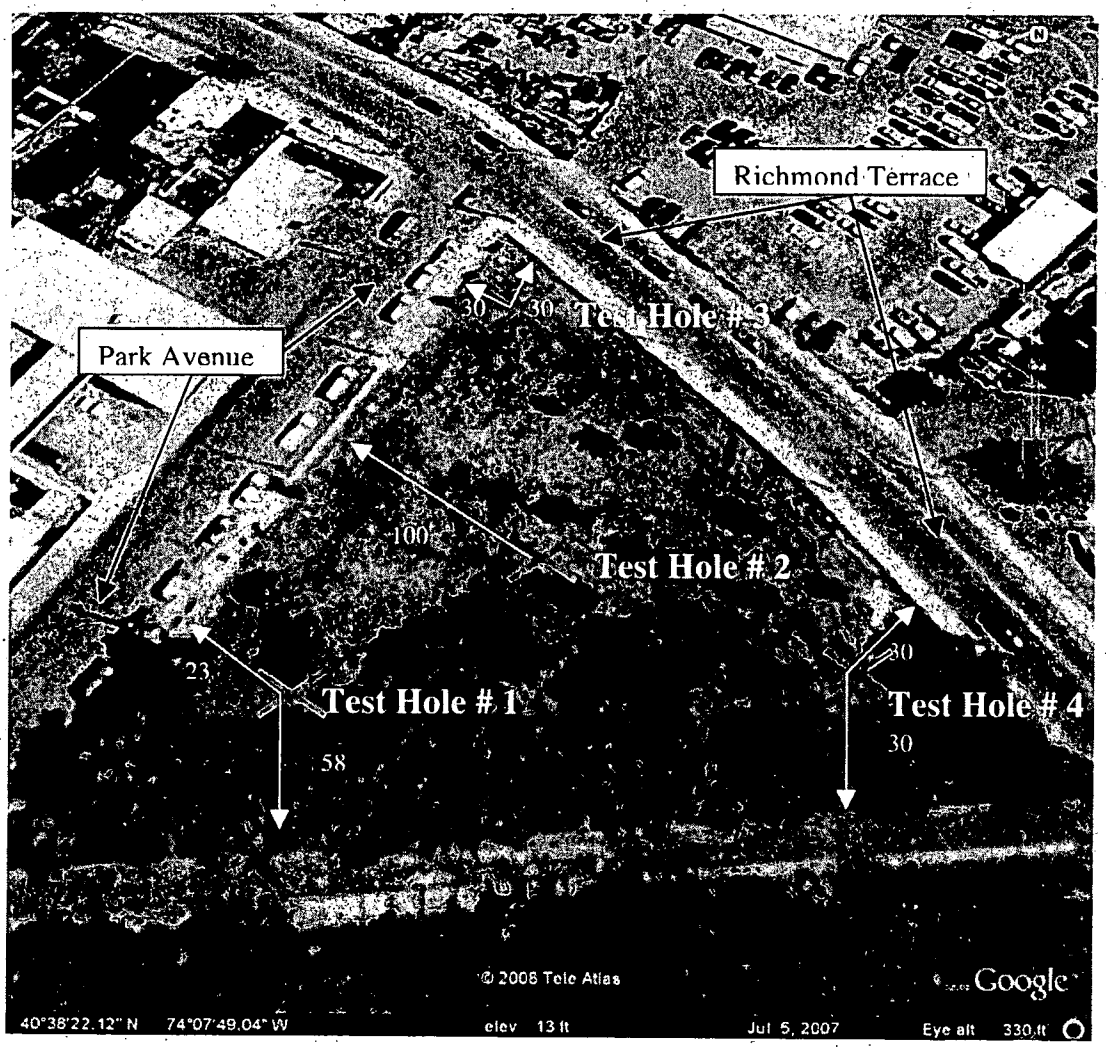


Exhibit # 1:
Location map of soil test holes taken on October 3, 2008, on Perfetto property at the corner of Park Avenue and Richmond Terrace in Staten Island, NY. All dimension are approximate measurement in feet.

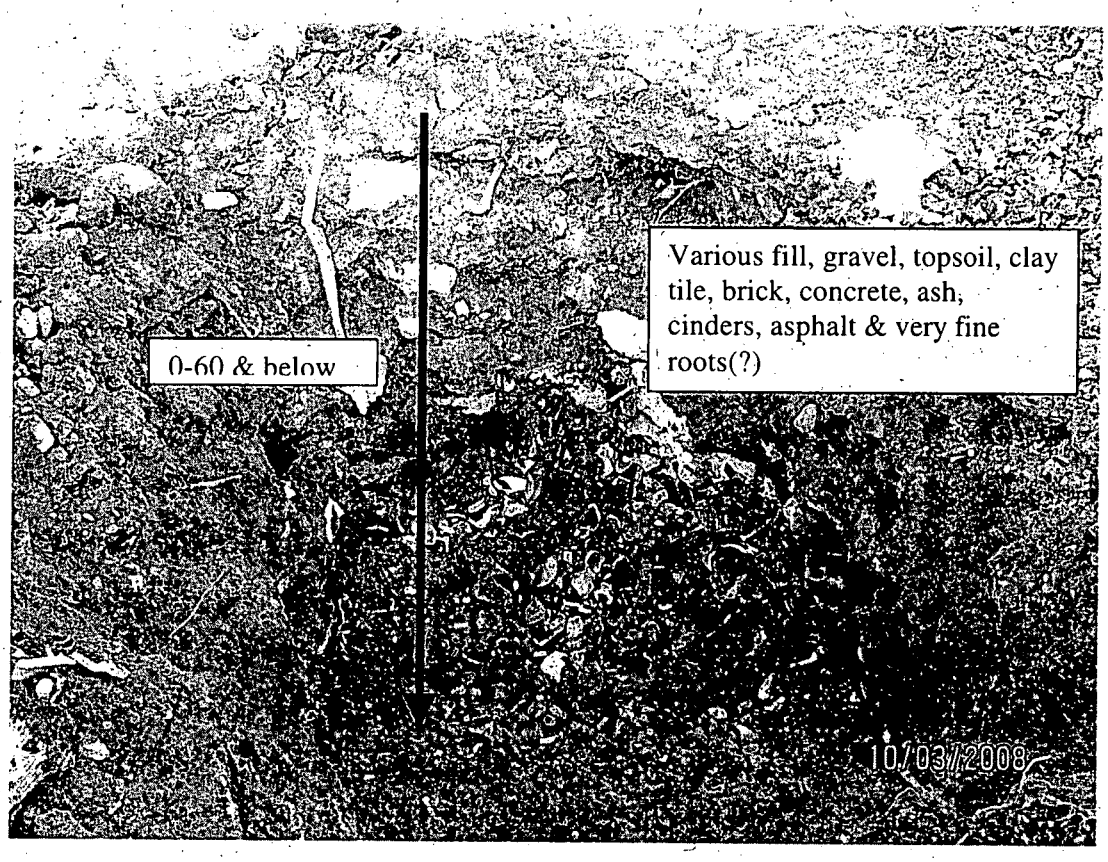


Exhibit # 2:
Photo of Soil Test Hole #1 taken on October 3, 2008. Layering and approximate dimension as indicated; all dimension are approximate measurement in feet.

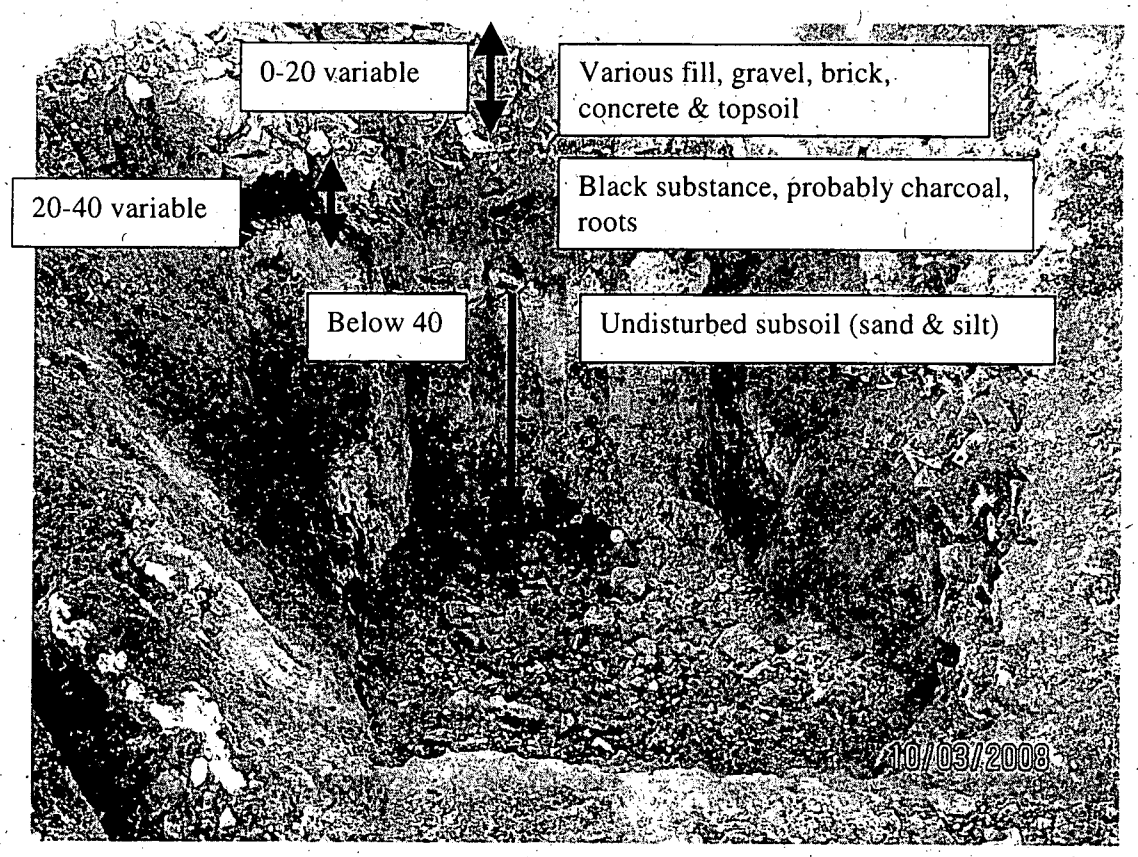


Exhibit # 3:
Photo of Soil Test Hole #2 taken on October 3, 2008. Layering and approximate dimension as indicated; all dimension are approximate measurement in feet.

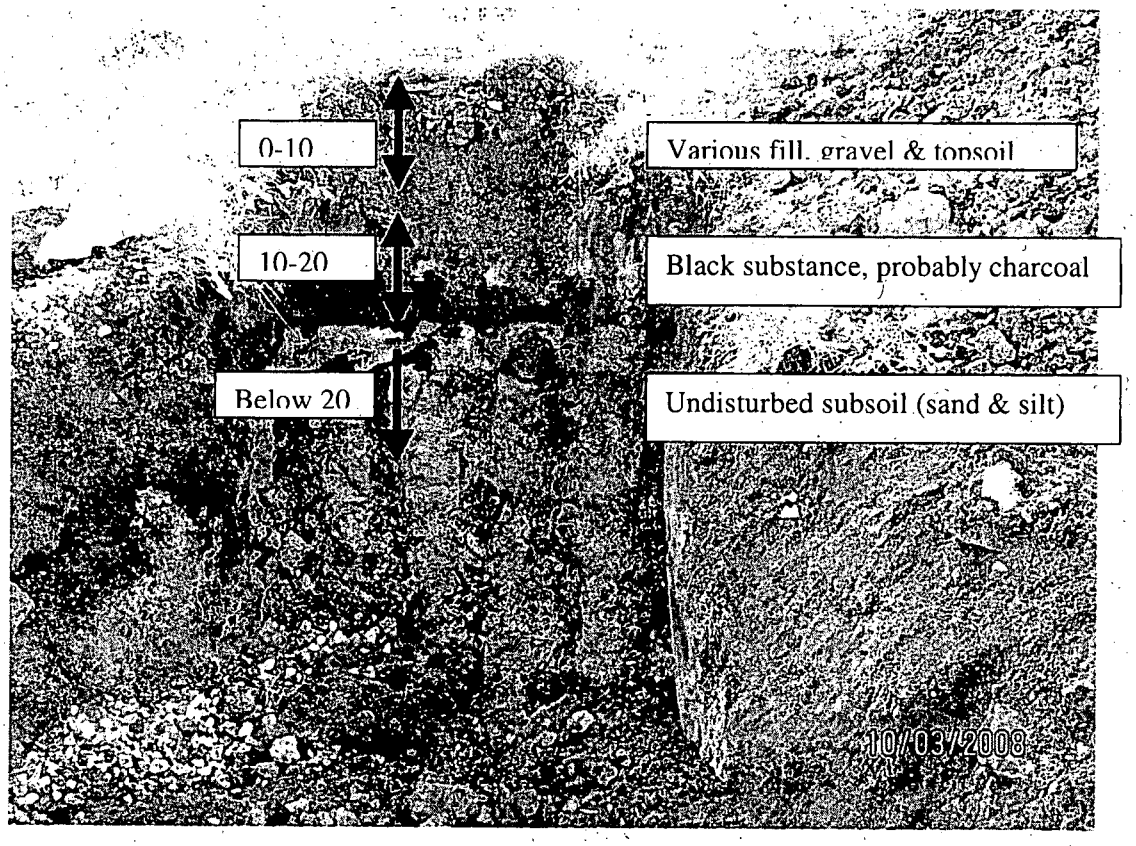


Exhibit # 4:
Photo of Soil Test Hole #3 taken on October 3, 2008. Layering and approximate dimension as indicated; all dimension are approximate measurement in feet.

Perfetto yard, Park Avenue & Richmond Terrace, Staten Island, NY.

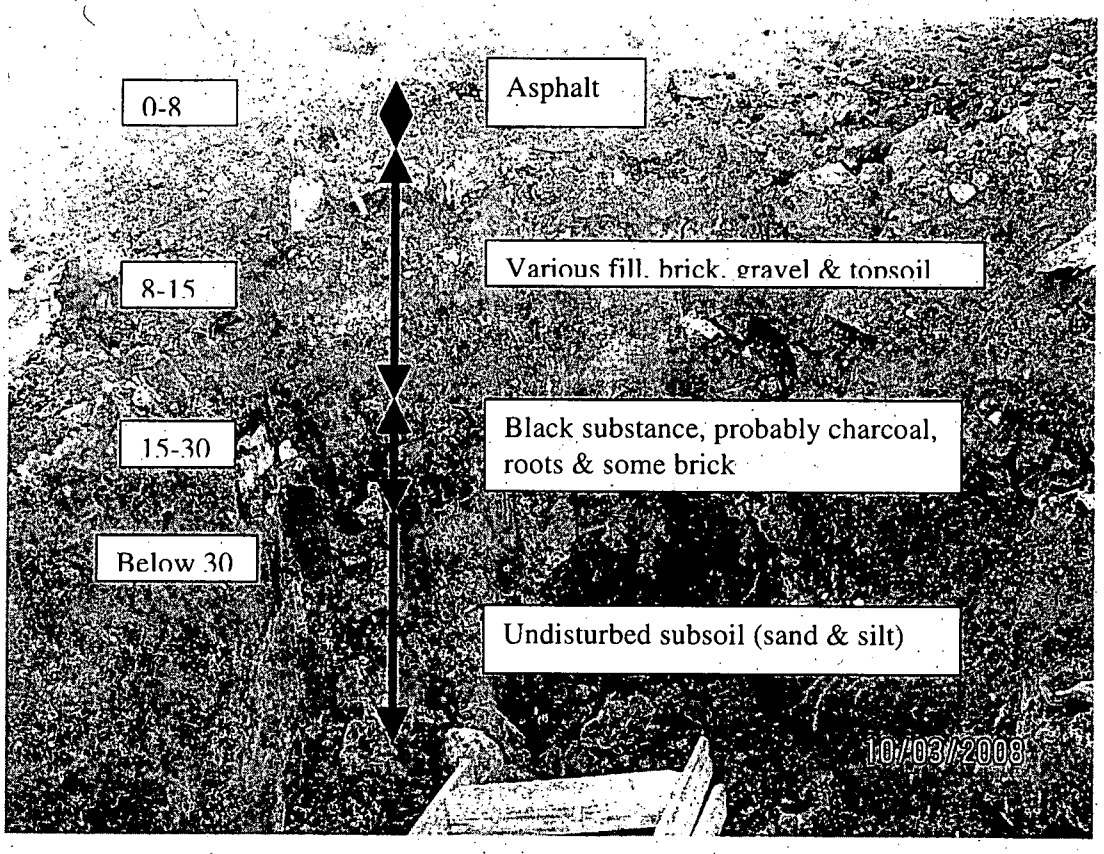


Exhibit # 5:
Photo of Soil Test Hole #4 taken on October 3, 2008. Layering and approximate dimension as indicated; all dimension are approximate measurement in feet.